

# **Inspector for Erosion and Sediment Control Course**

Participant Guide



Training provided by the Virginia Department of Environmental Quality  
Office of Training Services  
Version 3.0

## **Agenda Day 1**

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- 8:30 – 9:15 Module 1 – Introduction and Course Overview
- 9:15 – 10:00 Module 2 – Fundamentals of Erosion and Stormwater Runoff
- 9:45 – 10:00 Break
- 10:00 – 12:00 Module 3 – VESCP Elements and VESCL Overview
- 12:00 – 1:00 Lunch
- 1:00 – 2:15 Module 4 – Regulatory requirements for land disturbing activities
- 2:15 – 2:30 Break
- 2:30 – 4:00 Module 5 – ESC Plan Elements

## **Agenda Day 2**

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- 8:30 – 9:15 Module 6 – VESCP Inspection Program
- 9:15 – 10:00 Module 7 – Erosion and Sediment Control Measures
- 9:45 – 10:00 Break
- 10:00 – 12:00 Module 7 – Erosion and Sediment Control Measures (cont.)
- 12:00 – 1:00 Lunch
- 1:00 – 2:15 Module 7 – Erosion and Sediment Control Measures (cont.)
- 2:15 – 2:30 Break
- 2:30 – 4:00 Site inspection exercise

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## Module 1: Introduction and Course Overview

### 1a. Overview of the Virginia Erosion and Sediment Control Program

- Goal and purpose of the Virginia Erosion and Sediment Control Law (VESCL)...
- Brief History of the VESCL.....
- Integration of the Virginia Stormwater Management Program (VSMP).....

### 1b. Training and Certification Program

- Law and regulation requirements.....
- Required training courses and/or work experience.....
- Provisional certification.....
- Licensed professionals.....
- Examinations.....
- Dual certificates.....
- Re-certification.....

## Module 2: Fundamentals of Erosion and Runoff

### 2a. Overview

- Goal.....

### 2b. Erosion defined

- Five stages of erosion.....
- Four factors influencing erosion.....
- Soil K factor.....

### 2c. Runoff.....

### 2d. Principles of Erosion and Sediment Control.....

## Module 3: VESCP Elements, Law Overview for Inspectors

### 3a. Overview-Roles of VESCP Officials.....

### 3b. Program Statutory requirements, Law overview.....

- Definitions.....

- Plan submission and approval.....

- Annual Specifications.....

- RLD.....

- Plan review process.....

- Changes to an approved ESC plan.....

- Multi-jurisdictional projects.....

Bonds and surety.....
Inspections.....
More Stringent Requirements.....
Right to Enter.....
Notice to comply.....
Stop work order.....
Judicial proceedings.....
Civil penalties.....
3c. Program Review by DEQ .....

#### **Module 4: Regulatory requirements for land disturbing activities**

4a. Regulatory Erosion & Sediment Control Program Overview.....
4b. VESCP regulatory requirements overview
Definitions and propose.....
Scope and applicability.....
Minimum Standards 1-18.....
Minimum Standard 19.....
Variances.....
Criteria for determining status of land-disturbing activity.....

#### **Module 5: Erosion and sediment control plan elements**

5. ESC plan elements.....
Reading Counter Intervals .....
Adequate Plan .....

#### **Module 6: The VESCP Inspection Program**

Presentation Only.....
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#### **Module 7: Erosion and sediment control practices**

Chapter 3 of the VESCH.....
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## **Course Goal**

Provide participants with the knowledge and tools needed to effectively implement an Erosion and Sediment Control Program consistently with the regulatory requirements of the Virginia Erosion and Sediment Control Act and Regulations and to ensure the general health, safety and welfare of the citizens of Virginia, as well as provide protection for state waters.

This course for Inspectors has been consolidated to include basic information concerning erosion, soils, legal and regulatory requirements as well as technical information on ESC measures typically used on a land disturbing activity.

## **Acronyms**

**BMP:** Best Management Practice

**CA:** Composted amended soils

**CBPA:** Chesapeake Bay Preservation Area

**CDA:** Contributing drainage area

**CFS:** Cubic Feet per Second

**CN:** Curve number

**CPv:** Channel Protection Volume

**CSN:** Chesapeake Stormwater Network

**CSO:** Combined Sewer Overflow

**CWA:** Clean Water Act

**CWP:** Center for Watershed Protection

**DEQ:** Virginia Department of Environmental Quality

**ED:** Extended detention

**EMC:** Event Mean Concentration

**EPA:** United States Environmental Protection Agency

**ESC:** Erosion and Sediment Control

**ESCL:** Erosion and Sediment Control Law

**ESD:** Environmental Site Design

**g/cc:** Grams (weight) per Milliliter (volume)

**GP or Construction GP:** Construction General Permit

**HSG:** Hydrologic Soil Groups

**HUC:** Hydrologic Unit Code

**I-D-F curves:** Intensity-Duration-Frequency curves

**LDA:** Land Disturbing Activity

**LID:** Low Impact Development

**MS:** Minimum Standard

**MS4:** Municipal Separate Stormwater Sewer System

**NHRCs TR-55:** Natural Resources Conservation Service Technical Release 55

**NOAA:** National Oceanic and Atmospheric Administration

**NPDES:** National Pollutant Discharge Elimination System

**NPS:** Non-Point Source

**P:** Phosphorus

**P2 Plan:** Pollution Prevention Plan

**RR:** Runoff Reduction

**RRM:** Runoff Reduction Method

**SAV:** Submerged Aquatic Vegetation

**SWM:** Stormwater Management

**SWPPP:** Stormwater Pollution Prevention Plan

**Tc or TOC:** Time of concentration

**TMDL:** Total Maximum Daily Load (a federal and state regulatory term which describes the maximum pollutant amount a body of water can receive while still meeting water quality standards)

**Tv:** Treatment Volume

**VESCP:** Virginia Erosion and Sediment Control Program

**VRM:** Virginia Runoff Reduction Method

**VSMA:** Virginia Stormwater Management Act

**VSMP:** Virginia Stormwater Management Program

**VPDES:** Virginia Pollutant Discharge Elimination System